

## Author Index

Adesina, A.A., Hudgins, R.R. and Silveston, P.L.  
Effect of ethene addition during the Fischer-Tropsch reaction 295

Akolekar, D.B., see Choudhary, V.R. 171

Anders, G., Burkhardt, I., Illgen, U., Schulz, I.W. and Scheve, J.  
The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

Arcoya, A., Seoane, X.L., Figoli, N.S. and L'Argentiere, P.C.  
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

L'Argentiere, P.C., see Arcoya, A. 35

Au, C.T., see Zhao-Long Zhang L29

Balakrishnan, I. and Prasad, S.  
Synthesis of AlPO<sub>4</sub>-11 using long-chain secondary amines L6

Bandiera, J. and Ben Taarit, Y.  
Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

Bartholomew, C.H., see Wang, C. 221

Bastein, A.G.T.M., see Nonneman, L.E.Y. L23

Baumann, F.W., see Müller, A. L11

Ben Taarit, Y. 309

Bhargava, S., see Ekstrom, A. 253

Boskovic, G., see Ollendorff, R.L. 85

Branding, A., see Müller, A. L11

Breysse, M., see Müller, A. L11

Burch, R., see Nonneman, L.E.Y. L23

Burgoyne, W.F., see Dixon, D.D. 161

Burkhardt, I., see Anders, G. 271

Butt, J.G., see Ollendorff, R.L. 85

Cant, N.W., see Yong, Y.-S. 189

Chen, H., see Sajkowski, D.J. 205

Chocron, S. and Michman, M.  
Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl<sub>3</sub> 119

Choudhary, V.R., Rajput, A.M., Akolekar, D.B. and Seleznev, V.A.  
Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Coq, B., Pardillos, J. and Figueras, F.  
Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

Diemann, E., see Müller, A. L11

Dissanayake, W.D.D.P., see Ileperuma, O.A. L1

Dixon, D.D. and Burgoyne, W.F.  
Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

Ekstrom, A., Regtop, R. and Bhargava, S.  
Effect of pressure on the oxidative coupling reaction of methane 253

Eliyas, A. and Petrov, L.  
Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

Ewald, H., see Henrion, A. 23

Fazzini, D.R., see Sajkowski, D.J. 205

Figoli, N.S., see Arcoya, A.

Figueras, F., see Coq, B. 281

Gill, R.C., see Ozkan, U.S. 105

Hakze Chon, see Sung Hwa Jhung 61

Henrion, A., Ewald, H., Niessner, H. and Zimmermann, T.  
Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO<sub>2</sub> catalyst 23

Hudgins, R.R., see Adesina, A.A. 295

Ileperuma, O.A., Tennakone, K. and Dissanayake, W.D.D.P.  
Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO<sub>2</sub> catalyst systems L1

Illgen, U., see Anders, G. 271

Imai, H., Tagawa, T. and Nakamura, K.  
Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Jablonski, E.L., see Pieck, C.L. 47

KJaluschnaya, L., see Rama Rao, K.S. L19  
 Kanai, J. and Kawata, N.  
     Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141  
 Kanta Rao, P., see Rama Rao, K.S. L19  
 Kawata, N., see Kanai, J. 141

Lund, C.R.F., see Yarlagadda, P. 125

Mashtan, S.K., see Rama Rao, K.S. L19  
 Michman, M., see Chocron, S. 119  
 Miller, J.T., see Sajkowski, D.J. 205  
 Morrison, T.I., see Sajkowski, D.J. 205  
 Müller, A., Diemann, E., Branding, A., Baumann, F.W., Breysse, M. and Vrinat, M.  
     New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound  $(\text{NH}_4)_2[\text{Mo}_3^{\text{IV}}\text{S}_{13}]$  L13

Nakamura, K., see Imai, H. 348  
 Niessner, H., see Henrion, A. 23  
 Nonneman, L.E.Y., Bastein, A.G.T.M., Ponec, V. and Burch, R.  
     Role of impurities in the enhancement of C<sub>2</sub>-oxygenates activity. Supported rhodium catalysts L23  
 Nozaki, G., see Sato, S. 73

Ollendorff, R.L., Boskovic, G. and Butt, J.G.  
     Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85  
 Ozkan, U.S., Gill, R.C. and Smith, M.R.  
     Synergy in CdMoO<sub>4</sub>/MoO<sub>3</sub> catalysts in partial oxidation reactions of C<sub>4</sub> hydrocarbons 105

Pardillos, J., see Coq, B. 281  
 Parera, J.M., see Pieck, C.L. 47  
 Petró, J., see Polyanszky, E. 335  
 Petrov, L., see Eliyas, A. 11  
 Pieck, C.L., Jablonski, E.L. and Parera, J.M.  
     Sintering-redispersion of Pt-Re/Al<sub>2</sub>O<sub>3</sub> during regeneration 47  
 Pitchon, V., Primet, M. and Praliaud, H.  
     Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317  
 Polyanszky, E. and Petró, J.

Relationship between selectivity and hydrogen sorption of carbon-supported palladium catalysts 335  
 Ponec, V., see Nonneman, L.E.Y. L23  
 Praliaud, H., see Pitchon, V. 317  
 Prasad, S., see Balakrishnan, I. L6  
 Primet, M., see Pitchon, V. 317

Rajput, A.M., see Choudhary, V.R. 171  
 Rama Rao, K.S., Kanta Rao, P., Mashtan, S.K., Kaluschnaya, L. and Shur, V.B.  
     New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19  
 Regtop, R., see Ekstrom, A. 253  
 Ruckenstein, E., see Yarlagadda, P. 125

Sajkowski, D.J., Miller, J.T., Zajac, G.W., Morrison, T.I., Chen, H. and Fazzini, D.R.  
     Phosphorus promotion of Mo/Al<sub>2</sub>O<sub>3</sub> hydro-treating catalysts 205  
 Sato, S., Toita, M., Sodesawa, T. and Nozaki, G.  
     Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73  
 Scheve, J., see Anders, G. 271  
 Scholten, J.J.F., see Struyk, J. 151  
 Schulz, I.W., see Anders, G. 271  
 Seleznev, V.A., see Choudhary, V.R. 171  
 Seoane, X.L., see Arcoya, A. 35  
 Shur, V.B., see Rama Rao, K.S. L19  
 Silveston, P.L., see Adesina, A.A.  
 Smith, M.R., see Ozkan, U.S. 105  
 Sodesawa, T., see Sato, S. 73  
 Struyk, J. and Scholten, J.J.F.  
     Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151  
 Sung Hwa Jhung, Young Sun Uh and Hakze Chon  
     Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

Tagawa, T., see Imai, H. 348  
 Teichner, S.J.  
     Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Tennakone, K., see Illeperuma, O.A. L1

Toita, M., see Sato, S. 73

Tsai, K.R., see Zhao-Long Zhang L29

Vrinat, M., see Müller, A. L13

Wang, C. and Bartholomew, C.H.

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Yarlagadda, P., Lund, C.R.F. and Ruckenstein, E.

Oligomerization of ethene and propene over composite zeolite catalysts 125

Yong, Y.-S. and Cant, N.W.

Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen 189

Young Sun Uh, see Sung Hwa Jhung 61

Zajac, G.W., see Sajkowski, D.J. 205

Zhang, Z.-L., Au, C.T. and Tsai, K.R.

Methane oxidative coupling to C<sub>2</sub> hydrocarbons over lanthanum promoted barium catalysts L29

Zimmermann, T., see Henrion, A. 23

## Subject Index

**Acetaldehyde**  
 Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Acid sites**  
 Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

**Acid sites**  
 Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

**Acid sites**  
 Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

**Acid sites**  
 Oligomerization of ethene and propene over composite zeolite catalysts 125

**Acidity**  
 Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

**Adsorption**  
 Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

**Alcohol decomposition**  
 Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Alcohols-alkene interaction**  
 Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

**Alkali addition**  
 Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

**Alumina**  
 New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

**Ammonia synthesis**  
 New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

**Ammonia synthesis**  
 Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO<sub>2</sub> catalyst systems L1

**Ammonium dichromate**  
 Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl<sub>3</sub> 129

**Aromatics**  
 The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

**Blank reactor studies**  
 Effect of pressure on the oxidative coupling reaction of methane 253

**Butane**  
 Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

**Butanol dehydration**  
 Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

**Butyl aromatic amines (N-tert.-)**  
 Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

**Cadmium**  
 Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Cadmium-molybdenum oxide**  
 Synergy in CdMoO<sub>4</sub>/MoO<sub>3</sub> catalysts in partial oxidation reactions of C<sub>4</sub> hydrocarbons 105

**Calcium-nickel**  
 Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Caprolactam**  
 Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

**Carbon coating**  
 New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

**Carbon dioxide**

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

**Carbon monoxide adsorption**

Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

**Carbon monoxide hydrogenation**

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO<sub>2</sub> catalyst 23

**Catalyst characterization (adsorption, Mössbauer spectroscopy, XRD)**

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

**Catalyst characterization (BET, LRS, SEM, XRD)**

Synergy in CdMoO<sub>4</sub>/MoO<sub>3</sub> catalysts in partial oxidation reactions of C<sub>4</sub> hydrocarbons 105

**Catalyst characterization (chemometrics)**

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO<sub>2</sub> catalyst 23

**Catalyst characterization (ESR, Raman, XPS),**

Methane oxidative coupling to C<sub>2</sub> hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

**Catalyst characterization (IR)**

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

**Catalyst characterization (NMR, XRD)**

Synthesis of AlPO<sub>4</sub>-11 using long-chain secondary amines L7

**Catalyst characterization (NMR, XRD)**

Synthesis of AlPO<sub>4</sub>-11 using long-chain secondary amines L7

**Catalyst characterization (pulse flow, TPR, XPS)**

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

**Catalyst characterization (spectroscopy, TEM, XPS, TPR, TPD)**

Phosphorus promotion of Mo/Al<sub>2</sub>O<sub>3</sub> hydro-treating catalysts 205

**Catalyst characterization (TPD)**

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

**Catalyst characterization (XRD, single-point BET method)**

Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Catalyst characterization (XRD, XPS, TGA, EPR)**

Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

**Catalyst preparation (complex impregnation)**

New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound (NH<sub>4</sub>)<sub>2</sub>[Mo<sub>3</sub><sup>IV</sup>S<sub>13</sub>] L13

**Catalyst preparation (coprecipitation, impregnation)**

Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Catalyst preparation (crystallization)**

Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

**Catalyst preparation (impregnation, pyrolysis)**

New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

**Catalyst preparation (impregnation)**

Phosphorus promotion of Mo/Al<sub>2</sub>O<sub>3</sub> hydro-treating catalysts 205

**Catalyst preparation (incipient wetness)**

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

**Catalyst preparation (metal doping)**

Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO<sub>2</sub> catalyst systems L1

**Catalyst preparation (reduction)**

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

<b>Catalyst preparation (templating)</b>	
Synthesis of AlPO <sub>4</sub> -11 using long-chain secondary amines	L7
<b>Catalyst preparation (vapour deposition)</b>	
Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition	73
<b>Catalyst preparation (wet impregnation)</b>	
Methane oxidative coupling to C <sub>2</sub> hydrocarbons over lanthanum promoted barium catalysts	
Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.)	L29
Catalyst preparation (wet impregnation)	
Role of impurities in the enhancement of C <sub>2</sub> -oxygenates activity. Supported rhodium catalysts	L23
<b>Chemometrics</b>	
Application of chemometric tools to catalysis.	
Carbon monoxide hydrogenation on a multi-promoted Rh/SiO <sub>2</sub> catalyst	23
<b>Chlorine</b>	
Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures	85
<b>Chlorobenzene isomerization</b>	
Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure	281
<b>Cobalt oxide/kieselguhr</b>	
Effect of ethene addition during the Fischer-Tropsch reaction	295
<b>Coke ageing</b>	
Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite)	141
<b>Coke formation</b>	
Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite)	141
<b>Coke formation</b>	
Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure	281
<b>Coke formation</b>	
Sintering-redispersion of Pt-Re/Al <sub>2</sub> O <sub>3</sub> during regeneration	47
<b>Cracking catalysts</b>	
The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions	271
<b>Cracking catalysts</b>	
Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties	309
<b>Cumene cracking</b>	
Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition	73
<b>Cyclohexene hydrogenation</b>	
Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene	151
<b>Dehydrogenation</b>	
Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review	1
<b>Ethanol</b>	
Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene	151
<b>Ethene addition</b>	
Effect of ethene addition during the Fischer-Tropsch reaction	295
<b>Ethene epoxidation</b>	
Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst	11
<b>Ethene oligomerization</b>	
Oligomerization of ethene and propene over composite zeolite catalysts	125
Propene oligomerization	
Oligomerization of ethene and propene over composite zeolite catalysts	125
<b>Ethylbenzene hydrogenation</b>	
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts	35
<b>Ethylene epoxidation</b>	
Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen	189
<b>Ethylene oxide</b>	
Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen	

189

**Fischer-Tropsch synthesis**

Effect of ethene addition during the Fischer-Tropsch reaction 295

**Fischer-Tropsch synthesis**

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

**Formaldehyde**

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Gallium-zeolite**

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

**Gasoline**

The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

**Heptane cracking**

Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

**Hydroconversion**

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

**Hydrocracking**

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

**Hydrodesulphurization catalysts**

New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound  $(\text{NH}_4)_2[\text{Mo}_3^{\text{IV}}\text{S}_{13}]$  L13

**Hydrogen spillover**

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

**Hydrogen storage alloys**

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Hydrogenation**

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

**Impurities**

Role of impurities in the enhancement of C<sub>2</sub>-oxygenates activity. Supported rhodium catalysts L23

**Infrared spectroscopy**

Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

**Iron boride**

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

**Iron-manganese-titanium**

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Iron-titanium**

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Kinetics**

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

**Kinetics**

Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

**Lanthanum oxide/barium carbonate**

Methane oxidative coupling to C<sub>2</sub> hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

**Lithium**

Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Long-chain secondary alkyl amines**

Synthesis of AlPO<sub>4</sub>-11 using long-chain secondary amines L7

**Magnesium copper**

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

**Magnesium oxide**

Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium

and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Magnesium/titania**

Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO<sub>2</sub> catalyst systems L1

**Maleic anhydride**

Synergy in CdMoO<sub>4</sub>/MoO<sub>3</sub> catalysts in partial oxidation reactions of C<sub>4</sub> hydrocarbons 105

**Manganese**

Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Methane oxidative coupling**

Oxidative conversion of methane to C<sub>2</sub>-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

**Methane oxidative coupling**

Methane oxidative coupling to C<sub>2</sub> hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

**Methane oxidative coupling**

Effect of pressure on the oxidative coupling reaction of methane 253

**Methanol**

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

**Methylcyclopropane hydrogenolysis**

Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85

**Methylnaphthalene oxidation**

Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl<sub>3</sub> 129

**Molybdenum/Al<sub>2</sub>O<sub>3</sub>**

Phosphorus promotion of Mo/Al<sub>2</sub>O<sub>3</sub> hydro-treating catalysts 205

**Molybdenum oxide**

Synergy in CdMoO<sub>4</sub>/MoO<sub>3</sub> catalysts in partial oxidation reactions of C<sub>4</sub> hydrocarbons 105

**Molybdenum-sulphur**

New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound (NH<sub>4</sub>)<sub>2</sub>[Mo<sub>3</sub><sup>IV</sup>S<sub>13</sub>] L13

**Naphtha (light)**

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

**Naphtha reforming**

Sintering-redispersion of Pt-Re/Al<sub>2</sub>O<sub>3</sub> during regeneration 47

**Oxidation**

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

**Oxygen spillover**

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

**Oxygenates**

Role of impurities in the enhancement of C<sub>2</sub>-oxygenates activity. Supported rhodium catalysts L23

**Palladium/silica**

Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

**Palladium/silica**

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

**Phosphorus**

Phosphorus promotion of Mo/Al<sub>2</sub>O<sub>3</sub> hydro-treating catalysts 205

**Photocatalysis**

Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO<sub>2</sub> catalyst systems L1

**Platinum/alumina**

Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85

**Platinum-rhenium/alumina**

Sintering-redispersion of Pt-Re/Al<sub>2</sub>O<sub>3</sub> during regeneration 47

<b>Pressure effect</b>	
Effect of pressure on the oxidative coupling reaction of methane	253
<b>Regeneration</b>	
Sintering-redispersion of Pt-Re/Al <sub>2</sub> O <sub>3</sub> during regeneration	47
<b>Rhodium/silica</b>	
Application of chemometric tools to catalysis.	
Carbon monoxide hydrogenation on a multi-promoted Rh/SiO <sub>2</sub> catalyst	23
<b>Rhodium/silica</b>	
Role of impurities in the enhancement of C <sub>2</sub> -oxygenates activity. Supported rhodium catalysts	L23
<b>Ruthenium</b>	
Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene	151
<b>Ruthenium/alumina</b>	
New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis	L19
<b>Ruthenium trichloride</b>	
Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl <sub>3</sub>	129
<b>Selectivity (alkenes)</b>	
Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts	221
<b>Selectivity (alkenes)</b>	
Oligomerization of ethene and propene over composite zeolite catalysts	125
<b>Selectivity (C<sub>2+</sub> hydrocarbons)</b>	
Effect of pressure on the oxidative coupling reaction of methane	253
<b>Selectivity (C<sub>2</sub> hydrocarbons)</b>	
Methane oxidative coupling to C <sub>2</sub> hydrocarbons over lanthanum promoted barium catalysts	
Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.)	L29
<b>Selectivity (C<sub>2</sub>-hydrocarbons)</b>	
Oxidative conversion of methane to C <sub>2</sub> -hydrocarbons over lithium, manganese, cadmium	
and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen	171
<b>Selectivity (ethanol)</b>	
Application of chemometric tools to catalysis.	
Carbon monoxide hydrogenation on a multi-promoted Rh/SiO <sub>2</sub> catalyst	23
<b>Selectivity (ethylene oxide)</b>	
Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen	
189	
<b>Selectivity (higher hydrocarbons)</b>	
Effect of ethene addition during the Fischer-Tropsch reaction	295
<b>Selectivity (isobutane)</b>	
Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures	85
<b>Selectivity (maleic anhydride)</b>	
Synergy in CdMoO <sub>4</sub> /MoO <sub>3</sub> catalysts in partial oxidation reactions of C <sub>4</sub> hydrocarbons	105
<b>Selectivity (N-alkylation)</b>	
Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis	161
<b>Selectivity (oxirane)</b>	
Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst	11
<b>Silica-alumina</b>	
Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition	
73	
<b>Silica-alumina</b>	
Oligomerization of ethene and propene over composite zeolite catalysts	125
<b>Silicon-to-aluminium ratio</b>	
Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure	281
<b>Silver</b>	
Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen	
189	
<b>Silver/alumina</b>	
Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst	11
<b>Sintering</b>	
Sintering-redispersion of Pt-Re/Al <sub>2</sub> O <sub>3</sub> during regeneration	47

Styrene hydrogenation	61
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts	35
Sulphur-containing compounds	
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts	35
Syngas conversion	
Role of impurities in the enhancement of C <sub>2</sub> -oxygenates activity. Supported rhodium catalysts	L23
Syngas conversion	
Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts	221
Syngas conversion	
Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption	317
Syngas conversion	
Application of chemometric tools to catalysis.	
Carbon monoxide hydrogenation on a multi-promoted Rh/SiO <sub>2</sub> catalyst	23
Syngas conversion	
Effect of ethene addition during the Fischer-Tropsch reaction	295
Tetraalkylammonium dichromate	
Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl <sub>3</sub>	129
Thiophene	
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts	35
Trichloroethanol	
Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene	151
Vanadium reduction	
Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5	
Vanadium-aluminophosphate	
Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5	61
Xylene isomerization	
Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition	
73	
Zeolite-based hydrocracking catalysts	
Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review	
1	
Zeolites	
Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite)	141
Zeolites	
Oligomerization of ethene and propene over composite zeolite catalysts	125
Zeolites	
Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties	309
Zeolites	
Synthesis of AlPO <sub>4</sub> -11 using long-chain secondary amines	L7
Zeolites	
Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure	281
Zeolites	
The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions	271
Zeolites	
Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis	161
Zinc	
Oxidative conversion of methane to C <sub>2</sub> -hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen	171
Zinc-zeolite	
Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite)	141

